

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:11:12 ON 14 APR 2003

=> file medline biosis caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY

SESSION

0.21

0.21

FILE 'MEDLINE' ENTERED AT 16:11:23 ON 14 APR 2003

FILE 'BIOSIS' ENTERED AT 16:11:23 ON 14 APR 2003

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FILE 'CAPLUS' ENTERED AT 16:11:23 ON 14 APR 2003

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=> christer?/au

L1 369 CHRISTER?/AU

=> owman?/au

L2 1341 OWMAN?/AU

=> l1 and l2

L3 0 L1 AND L2

=> heptahelix

L4 25 HEPTAHELIX

=> l4 and receptor

L5 25 L4 AND RECEPTOR

=> leukotriene b4 receptor

L6 551 LEUKOTRIENE B4 RECEPTOR

=> l5 or l6

L7 575 L5 OR L6

=> l7 and 1970-1997/py

2 FILES SEARCHED...

L8 316 L7 AND 1970-1997/PY

=> dup rem l8

PROCESSING COMPLETED FOR L8

L9 198 DUP REM L8 (118 DUPLICATES REMOVED)

=> d his

(FILE 'HOME' ENTERED AT 16:11:12 ON 14 APR 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 16:11:23 ON 14 APR 2003

L1	369	CHRISTER?/AU
L2	1341	OWMAN?/AU
L3	0	L1 AND L2
L4	25	HEPTAHELIX
L5	25	L4 AND RECEPTOR
L6	551	LEUKOTRIENE B4 RECEPTOR
L7	575	L5 OR L6
L8	316	L7 AND 1970-1997/PY
L9	198	DUP REM L8 (118 DUPLICATES REMOVED)

=> logoff

ID P2Y7_HUMAN STANDARD; PRT; 352 AA.
 AC Q15722; Q13305; Q92641;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 15-JUL-1998 (Rel. 36, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE P2Y purinoceptor 7 (P2Y7) (Leukotriene B4 receptor) (Chemoattractant
 DE receptor-like 1).
 GN LTB4R OR P2RY7 OR GPR16 OR CMKRL1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=96324902; PubMed=8702478;
 RA Akbar G.K.M., Dasari V.R., Webb T., Ayyanathan K.,
 RA Pillarisetti K., Sandhu A.K., Athwal R.S., Daniel J.L., Ashby B.,
 RA Barnard E.A., Kunapuli S.P.;
 RT "Molecular cloning of a novel P2 purinoceptor from human
 RT erythroleukemia cells.";
 RL J. Biol. Chem. 271:18363-18367(1996).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=96145150; PubMed=8558062;
 RA Raport C.J., Schweickart V.L., Chantry D., Eddy R.L. Jr., Shows T.B.,
 RA Godiska R., Gray P.W.;
 RT "New members of the chemokine receptor gene family.";
 RL J. Leukoc. Biol. 59:18-23(1996).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=97320501; PubMed=9177352;
 RA Yokomizo T., Izumi T., Chang K., Takuwa Y., Shimizu T.;
 RT "A G-protein-coupled receptor for leukotriene B4 that mediates
 RT chemotaxis.";
 RL Nature 387:620-624(1997).
 RN [4]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=97079680; PubMed=8921391;
 RA Owman C.S.O., Nilsson C., Lolait S.J.;
 RT "Cloning of cDNA encoding a putative chemoattractant receptor.";
 RL Genomics 37:187-194(1996).
 CC -!- FUNCTION: RECEPTOR FOR EXTRACELLULAR ATP > UTP AND ADP. THE
 CC ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE
 CC A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM. MAY BE THE
 CC CARDIAC P2Y RECEPTOR INVOLVED IN THE REGULATION OF CARDIAC MUSCLE
 CC CONTRACTION THROUGH MODULATION OF L-TYPE CALCIUM CURRENTS.
 CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
 CC -!- TISSUE SPECIFICITY: EXPRESSED AT HIGHEST LEVELS IN HEART, SKELETAL
 CC MUSCLE AND AT LOWER LEVELS IN BRAIN AND LIVER. HIGH LEVEL OF
 CC EXPRESSION IN LYMPHOID TISSUES.
 CC -!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
 CC -----
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 CC -----

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 DR EMBL; U41070; AAC50628.1; -.
 DR EMBL; U33448; AAB16747.1; ALT_INIT.
 DR EMBL; D89079; BAA20424.1; -.
 DR EMBL; D89078; BAA20423.1; -.
 DR EMBL; X98356; CAA67001.1; -.
 DR Genew; HGNC:6713; LTB4R.
 DR MIM; 601531; -.
 DR InterPro; IPR000276; GPCR_Rhodpsn.
 DR InterPro; IPR003983; LTB1_rec.
 DR InterPro; IPR003981; LTB_rec.
 DR Pfam; PF00001; 7tm_1; 1.
 DR PRINTS; PR00237; GPCRRHODOPSN.
 DR PRINTS; PR01477; LTB1RECEPTOR.
 DR PRINTS; PR01476; LTBRECEPTOR.
 DR PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
 DR PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
 KW G-protein coupled receptor; Transmembrane; Glycoprotein.
 FT DOMAIN 1 19 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 20 42 1 (POTENTIAL).
 FT DOMAIN 43 54 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 55 75 2 (POTENTIAL).
 FT DOMAIN 76 91 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 92 113 3 (POTENTIAL).
 FT DOMAIN 114 138 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 139 159 4 (POTENTIAL).
 FT DOMAIN 160 178 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 179 199 5 (POTENTIAL).
 FT DOMAIN 200 221 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 222 242 6 (POTENTIAL).
 FT DOMAIN 243 268 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 269 289 7 (POTENTIAL).
 FT DOMAIN 290 352 CYTOPLASMIC (POTENTIAL).
 FT CARBOHYD 2 2 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 164 164 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CONFLICT 246 246 G -> R (IN REF. 4).
 FT CONFLICT 272 272 A -> V (IN REF. 1).
 FT CONFLICT 293 293 L -> V (IN REF. 1).
 SQ SEQUENCE 352 AA; 37557 MW; 5A7BFC0A659AC81C CRC64;

Query Match 100.0%; Score 1749; DB 1; Length 352;
 Best Local Similarity 100.0%; Pred. No. 1.1e-94;
 Matches 352; Conservative 0; Mismatches 0; Indels 0; Gaps
 0;

Qy 1 MNTTSSAAPPSTLGVEFISLLAIILLSVALAVGLPGNSFVVWSILKRMQKRSVTALMVLNL 60
 |||||
 Db 1 MNTTSSAAPPSTLGVEFISLLAIILLSVALAVGLPGNSFVVWSILKRMQKRSVTALMVLNL 60
 |||||

Qy 61 ALADLAVLLTAPFFLHFLAQGTWSFGLAGCRLCHYVCGVSMYASVLLITAMSLDRSLAVA 120
 |||||
 Db 61 ALADLAVLLTAPFFLHFLAQGTWSFGLAGCRLCHYVCGVSMYASVLLITAMSLDRSLAVA 120
 |||||

Qy 121 RPFVSQKLRTKAMARRVLAGIWVLSFLLATPVLAYRTVVPWKTNMSLCFPRYPSEGHRAF 180
 |||||
 Db 121 RPFVSQKLRTKAMARRVLAGIWVLSFLLATPVLAYRTVVPWKTNMSLCFPRYPSEGHRAF 180
 |||||

Qy 181 HLIFEAVTGFLLPFLAVVASYS DIGRRLQARRFRRSRRTGRLVVLIILTFAAFWLPYHV 240
 |||||
 Db 181 HLIFEAVTGFLLPFLAVVASYS DIGRRLQARRFRRSRRTGRLVVLIILTFAAFWLPYHV 240
 |||||

Qy 241 NLAEAGRALAGQAAGLGLVGKRLSLARNVLI ALAFLSSSVNPVLYACAGGGLLSAGVGF 300
 |||||
 Db 241 NLAEAGRALAGQAAGLGLVGKRLSLARNVLI ALAFLSSSVNPVLYACAGGGLLSAGVGF 300
 |||||

Qy 301 VAKLLEGTGSEASSTRRGGSLGQTARSGPAALEPGPSESLTASSPLKLNELN 352
 |||||
 Db 301 VAKLLEGTGSEASSTRRGGSLGQTARSGPAALEPGPSESLTASSPLKLNELN 352
 |||||

WEST Search History

DATE: Monday, April 14, 2003

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT; PLUR=YES; OP=AND

L5	l1 and L4	1	L5
L4	leukotriene near b4 near receptor	23	L4
L3	leukotriene adj b4 adj receptor	23	L3
L2	heptahelix adj receptor	4	L2
L1	christer.in. and owman.in.	3	L1

END OF SEARCH HISTORY